This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

Figure 1

 $Pifithrin\text{-}\beta$

Figure 2

$$\begin{array}{c|c} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ \\ & \\ & \\ \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$$

Figure 3

$$H_2O_3P$$
 N
 PO_3H_2
 H_2O_3P
 $DOTMP$

Figure 4

Figure 5

Figure 6

MTX-BP

Figure 7

Figure 8

ACL-3

Figure 9

$$CI$$
 A
 B
 NH_2
 B
 NH_2
 B
 B
 CH_3
 CH_3

Figure 10

Figure 12

$$\begin{array}{c} O \\ O \\ O \\ O \\ S \\ \end{array} \begin{array}{c} NH \\ Ac_2O, AcONa \\ H_2O \\ \end{array} \begin{array}{c} P \\ CD_3 \\ H_2O \\ \end{array} \begin{array}{c} P \\ CD_3 \\ H_2O \\ \end{array} \begin{array}{c} CD_3 \\ R \\ \end{array} \begin{array}{c} CD$$

Figure 13

$$\frac{R_1R_2NH}{37\% \text{ formalin}}$$
overnight, RT
$$\frac{pH=7.5}{50 \text{ mM Phosphate}}$$

$$\frac{L_{1/2}=33 \text{ minutes}}{2}$$

$$\frac{R_1R_2NH}{R_1}$$

$$\frac{W}{R_2}$$

$$\frac{W}{L_{1/2}=33 \text{ minutes}}$$

Figure 14

Figure 15

Cis-Aconitic Anhydride

Figure 16

Figure 17

$$\underbrace{\frac{\text{AE}}{\text{O}}}_{\text{O}} \underbrace{\frac{\text{R}_{1}\text{OH}, \text{R}_{2}\text{OH}}{\text{mixture}}}_{\text{R}_{1}\text{O}} \underbrace{\frac{\text{R}_{1}\text{O}}{\text{O}}}_{\text{O}} \underbrace{\frac{\text{AF}}{\text{O}}}_{\text{O}} \underbrace{\frac{\text{AF}}{\text{O}}}_{\text{O}}$$

Figure 18

$$AG$$
 (OH + AG (OO) AG (A) AG (OO) AG (A) AG (OO) AG (A) AG (OO) AG (A) AG

Figure 20

Figure 21

Figure 22

Figure 23

Figure 24

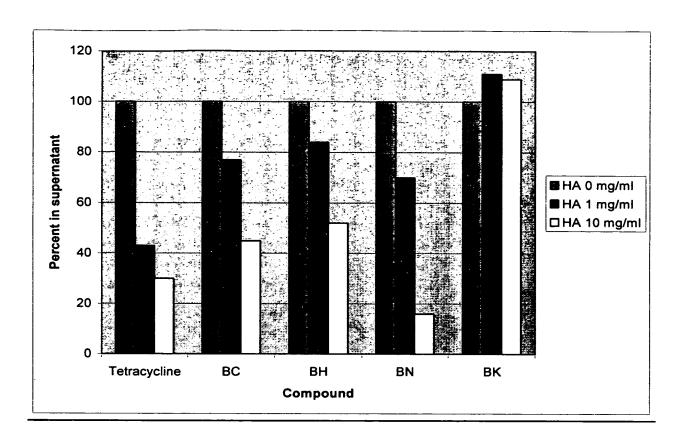


Figure 25

Figure 26

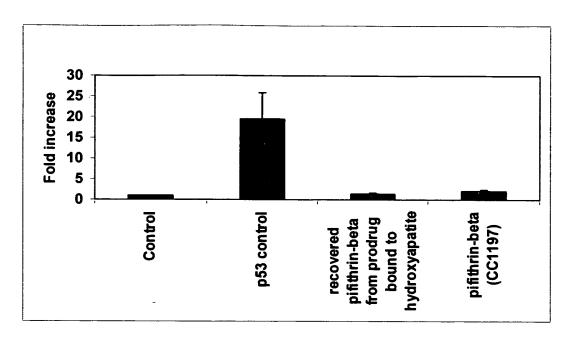


Figure 27

Figure 28

Figure 29

Figure 30

Figure 31

$$CD \qquad NCS \qquad CE \qquad CH_3 \qquad NCS$$

$$CE \qquad CH_3 \qquad CO_2H \qquad CH_3 \qquad CH_3$$

$$CG \qquad CH_3 \qquad CH_4 \qquad CH_5 \qquad CH_5$$

$$CG \qquad CH_5 \qquad CH_5 \qquad CH_5 \qquad CH_5$$

$$CG \qquad CH_5 \qquad CH_5 \qquad CH_5 \qquad CH_5$$

Figure 32

Figure 33

Figure 34

Figure 35

<u>DO</u>

Figure 36